NOVOTRON
Future in Drives

MT22R2
D. C. Servomotors

Technical Data

Parameter	Unit	-24	-19	-12	-10
General					
Voltage Gradient No Load	Volts/1000 RPM *	24	19	12	10
Max. Terminal Voltage	Volts	120	95	60	50
Max. Speed	RPM	5000	5000	5000	5000
Continuous Stall Torque TENV ***	**Nm**	**1.2**	**1.2**	**1.2**	**1.2**
Continuous Stall Torque when fitted to Heatsink (Size 300 x 300 x 12.5 mm) ***	Nm	1.35	1.35	1.35	1.35
Continuous Stall Current TENV ***	**Amps**	**5.2**	**6.7**	**10.9**	**12**
Armature Polar Moment of Inertia	Kgm²	0.0006	0.0006	0.0006	0.0006
Current at Peak Torque **	**Amps**	**35**	**44**	**70**	**84**
Peak Stall Torque **	Nm	8	8	8	8
Torque Constant K_T **	Nm/Amp *	0.23	0.18	0.11	0.1
Voltage Constant K_V **	Volts/Rad/Sec	0.23	0.18	0.11	0.1
Theoretical Acceleration at Peak Torque	Rad/Sec²	13300	13300	13300	13300
Winding					
Armature Resistance Less Brushes **	Ohms *	1.6	0.98	0.34	0.26
Armature Inductance	Millihenrys *	4.1	2.6	0.89	0.66
Mechanical Time Constant **	Milliseconds	16	16	16	16
Insulation Class		F	F	F	F
Max. Ambient Temperature	˚C	40	40	40	40
Thermal Time Constant	Minutes *	25	25	25	25
Static Friction Torque	Nm	0.055	0.055	0.055	0.055
Motor Weight	Kg	5	5	5	5
Tachometer					
Voltage Gradient	Volts/1000 RPM *	9.5		7	
	Volts/Rad/Sec *	0.09		0.067	
Ripple	Per Cent	1		1	
	Cycles/Rev	33		33	
Armature Resistance **	Ohms	90		65	
Armature Inductance	Millihenrys *	15		8	
Maximum Current	Amps	0.02		0.03	

* Tolerance ± 10% ** At 25˚C *** At 40˚C Ambient